	O MOVEMBER 1991		
	HILHORADBUN 10P: Projects Review Committee		
2	OBJECT Proposed External Research Project with		
	1. It is proposed to establish an external research project with the		
3	through the Attached		
	are papers providing tackground information on the project and an advance		
$\subseteq$	copy of the proposel to be submitted by		
	2. This research will profitably contribute to Project "Artichoke"		
	which was approved by the Deputy Director for Central Intelligence on		
	13 Merch 1951. The funds should be made available upon completion of negotia-		
3	tions with thefor expenditure during FY-1952.		
	Authorization for the funds to carry over into FY-1953, if necessary, should		
	to provided.		
	3. There are no administrative support requirements within the Agency		
	other than those already provided for in the budgets of the offices concerned.		
	h. The project will be implemented by transfer of funds to the		
$\mathcal{G}$	The will establish the project		
	on an unclassified basis and moultor it in accordance with their stendard		
B	procedures. In the fiscal negotiations with the		
	cost for their services in monitoring the project, if any, should be investi-		
	great.		
	5. This project was brought to our attention by, and is fully coordi-		
3	nated with, the		
_	6. This project has been coordinated with DD(Plans), and the Assistant		
_	Directors of LLSO,		
-	•		
	Attach		

## PACKOROURD LIFORMATION ON

BEOFORID PERMANEN PROJECT WITH	
1. The project invalves research and development of a new te	cinique
known as "side tone delay", as an aid to interrelations. The tech	ntquo
does not solve the interrogation problem but will, if successfully	developed,
provide a upoful device under certain conditions. As such it will	. make a
useful contribution to certain aspects of Project Artichoks.	
2. The project was suggested by	to the
whore It was referred to the	
. Ropresentatives of the	
) feel that this is a promisi	ng device
which warrants development. However, they state that has com-	itted all
of the funds they will have available for this purpose in FI-1952.	They
feel that this is a matter in which CIA could make a useful contri	bution
in the community interest and from which CIA night realize conside	rable benef
3. Fin has suggested that, should CIA wish to undertake the	project,
the Agancy should deal directly with Tho contact,	*
, advises that his office would be willing to edminister the p	roject on
an unclassified basis except that his office will classify as seen	ot any
negotiations with CIA and the fact that CIA has an interest in the	matter.

PROPOSAL TO

ADVAILE COPY OF

DE CURSITUD TO THE

, engaged in the development and application of interrogation methods as used primarily in personnel and criminal investigations, proposes that it conduct research in the application of side tone delay to interrogation techniques.

described independently by and by in 1950. It was found that speaking difficulty is experienced by a subject when his speech is delayed a fraction of a second in traveling to his ears.

Side tore delay and its effect on the speech control of a subject wes

Preliminary experiments in our laboratory indicate that side tone dealy will be useful in accelerating the process of obtaining desired information from subjects who have given positive guilt responses under polygraph examination. The available evidence bears out the tasic postulate of the author of this proposal that the effects of side tone delay when applied during the tolling of a lie will lead the subject to the independent and erroneous corclusion that his speech difficulty has made his guilt ctvious to the examiner. The subject's association of guilt with his lack of speech control is a natural mistake since the effects of side tone delay ore similar to the manifestations of guilt of an imexpert Lier (stuttering, stermoring, confusion, etc.). On the other hand an invocent subject suffers only a temporary confusion and it does not appear possible that false selfincrimination can result.

Preliminary experiments have indicated the need for the investigation of several factors in the development of side tone delay as an interrogation aid. 1. It will be necessary to study the optimum degree of delay.

12

conclusions in this regard were based on his study of word list reading and do not appear to apply accurately under the committions of importance here. Furthermore, it may be that optimum results will attend the use of a variable cicling delay.

- 2. Since present polygraph interrogation technique requires that consequent the replies only to give by the subject it is clear that this rethed of questioning is not adopted to the purpose at hand. Therefore the development of a questioning technique that will, among other things, tend to require lengthy and detailed answers will be of prime importance. Preliminary experiments have shown that this will to a difficult problem.
- 3. It may be possible to initiate and control side tone dolar by means of polygraph responses. Thus an abhornal response, through a suitable linkage, would introduce and proportion the delay. With the additional tension in the subject that this would develop it might be found that a sort of regenerative amplification process would tend to take place, which if obtainable, would, of course, hasten the brenking down of the subject.
- h. The use of side tone delay without devices attached to the subject appears to be of importance for those applications where an appearance that normal interviewing techniques are in use, is desirable. The considerable benefits that would result indicate the importance of investigating combinations of directional microphenes an' focuseing speaker arrangements to this and.

	Fig. asserted to distribute again, optimizing to the
e graph Transach server - our manner an area constitue a	un y marke of a constant
	N will always
e 17 mai de 18 mare esta esta esta esta esta esta esta est	V. 14. 14. 13 (8. 154.8)
The	Polygraph reco
overt and covert muccular contractions and mucular pro-	essures as erted by
the subject which detects efforts to best the test.	
	With this inst
rank and do entire enterie was noted and the number of	C'inconclariva renor
were substantially reduced. Introduced a co	ompletely new questi
Ann Anniestann der 1de Jahanklau sehlen ut- 140ta A. Aba den	terpretation of the
ing technique in lie detection which simplifies the in	

f	will be utilized	. The sorvices of the firm of
11-1-2	will be r	etained to carry on the instrument and
pneratus res	erroh nikl developnen	nt. This firm will utilize full time an
netremont o	cineer for this sum	one under the direction of
	and the other property	· · · · · · · · · · · · · · · · · · ·

It is estimated that the program will require one year for completion and it is proposed that it be carried out under a fixed price contract covering the following items:

•	•			
	1.	Salaries  A.  B. Assistant investigator - Full time C. Secretary - One-third time	charge \$ 7500. 1200.	\$ 87.00 ·
	2.	Materials superdable A. Chart paper B. Instrument repair parts	200. 250.	450.
	3•	Capital Equipment  A. Polygraph instrument	1700. 775.	2և75•
	և.	Travel A. 3 trips to Washington @ \$125.00	375.	375•
	5•	Peports A. Multicrephing	850 • 500 •	1350.
	6.	Shipping Classified Material	100.	100.
	7.	A.D.T. Security System	800.	800,
	8.	Overhead, 50% of calaries	L350.	L350.
	9. <u></u>	Services of  A. Falories a.Director, b. Instrument Engineer - Pull time c. Secretary - One-third time	7500. 1200.	8700.
	-	B. Materials e perdable a. Metal bar speck, sheet, etc. b. Electronic and sound components	300. 2000.	2300,
		<ul><li>C. Capital items</li><li>a. Tape recorder for modification</li></ul>	775•	775.
		D. Travel a. Three trips to Washington, D. C.	375•	375•
		E. Overherd, 40% of salaries	31,80.	3480. 15630.
		Total		\$34230.

i

....